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UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Economics



In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS,

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937 - 1938

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## APPLE MANUFACTURES - 1937 AND 1938

New York State has, for many years, produced large quantities of apple cider, evaporated apples, canned apples and apple-sauce, and other apple products. In recent years there has been a growing interest in extending the use of apples in valuable food, beverages and industrial products. The apple-manufacturing industry has provided an outlet for large quantities of apples which, because of quality or of market conditions, could not readily or economically be sold for consumption as fresh fruit; this fruit has ordinarily been moved at harvest time directly from the orchard to the plant or mill with the minimum of handling and storage.

In order to provide definite information on the extent to which apples are used in manufacturing establishments, a survey of the industry was started in the fall of 1937. Lists of apple evaporators, commercial and custom cider mills, and canneries were assembled through the cooperation of the Bureaus of Markets and Food Control of the Department of Agriculture and Markets, the town, village and city clerks throughout the state and the Association of New York State Canners, Inc. Simple questionnaires, asking for the quantities of apples received and utilized and a few other items, were mailed to the operator of each establishment and these were followed up until the enumeration was practically complete.

Most of the canneries, larger cider mills and evaporators had excellent records, though many of the smaller establishments, especially custom cider mills, had incomplete records and frankly indicated that their reports were estimates. It is believed that the tables contained herein represent the apple manufacturing situation with substantial accuracy for the crops of 1937 and 1938. More complete records, and report blanks asking for greater detail, may be expected to increase the usefulness of similar information in the future.

Cordial acknowledgment of the cooperation of the owners or operators of the manufacturing establishments, for which the reports were submitted, and of all others who assisted with the project, is made. The compilations were made in the Bureau of Statistics.

The apple crop of 1937, estimated at 24,340,000 bushels in New York State, was relatively heavy, and was generally well distributed throughout the state, both in the intensive commercial areas of the Ontario, Hudson and Champlain districts, and also in the less intensive areas and in the scattered farm orchards throughout the state. In contrast, the 1938 crop, injured by spring freezes, except in more favorable locations, was relatively light, the heaviest crops being found in the more intensive commercial areas best adapted to the production of apples and which suffer least from adverse weather conditions, the state total crop, preliminary, being estimated at 16,380,000 bushels. In many sections there were so few apples in 1938 that many mills that had operated in 1937 were closed in 1938.

TABLE 1- APPLES AND APPLE PRODUCTS IN CIDER-MILLS, EVAPORATORS AND CANNERIES, 1937 AND 1938

	CROP YEAR 1937	CROP YEAR 1938
<u>APPLE CIDER MILLS:</u>		
Mills in operation, No. <u>1/</u>	573	452
Apples received, bushels <u>2/</u>	4,434,300	2,621,797
Cider pressed, gallons <u>3/</u>	18,493,800	10,662,002
Average price paid for cider apples, expressed as prevailing price per 100 pounds	22¢	26¢
Average date pressing started	Oct. 4	Oct. 4
" " " ended <u>4/</u>	Dec. 1	Nov. 30
Of the apples received, there were from other states, bushels	9,600	10,300
<u>APPLE EVAPORATORS:</u>		
Evaporators in operation, No.	47	29
Apples received, bushels	1,284,800	373,900
Dried apples produced, pounds	7,101,200	2,147,700
Dried chops produced, pounds	727,000	192,300
Dried skins and cores, pomace and waste, pounds	2,426,300	104,000
Average price paid for drying apples, expressed as prevailing price, per 100 pounds <u>5/</u>	33¢	28¢
Average date drying started	Oct. 4	Oct. 5
" " " ended	Dec. 5	Nov. 16

TABLE 1- APPLES AND APPLE PRODUCTS IN CIDER-MILLS, EVAPORATORS AND  
CANNERIES, 1937 AND 1938 - CONTINUED

	CROP YEAR 1937	CROP YEAR 1938
<u>CANNING FACTORIES USING APPLES:</u>		
Canneries using apples, No.	27	22
Apples received, bushels	1,893,200	874,300
Less transfers to cider mills, etc., bu.	20,100	8,100
<u>Net apples used in canneries, bushels</u>	<u>1,873,100</u>	<u>866,200</u>
Apples used:		
For canned apples and apple-sauce, bu.	1,657,700	790,100
Pressed for cider in factories, bu.	66,700	9,000
For other purposes such as apple butter, jelly, mince-meat, apple juice, frozen apples, etc., bushels	148,600	64,400
Loss and waste	100	2,700
<u>Net utilization</u>	<u>1,873,100</u>	<u>866,200</u>
Cider pressed in canning factories, including that from skins and cores, gallons	353,600	146,000
Average price paid for canning apples expressed as prevailing price per 100 pounds 5/	43¢	58¢
Raw apples, before paring, used:		
Per doz. No. 10 cans of canned apples, lbs.	113.2	118.2
Per case of 24 No. 2 cans of apple sauce, lbs.	38.6	38.3
Average date canning started	Oct. 6	Oct. 11
" " " ended	Dec. 9	Nov. 18
Of the apples received, there were from other states, bushels	1,000	200
<u>SUMMARY:</u>		
<u>Apples received at:</u>		
Cider mills, bushels	4,434,300	2,621,800
Evaporators, bushels	1,284,800	373,900
Canneries (net) bushels	1,873,100	866,200
Total received, bushels	7,592,200	3,861,900
<u>Apples used for cider:</u>		
In cider mills, bushels	4,434,300	2,621,800
In canneries, bushels	66,700	9,000
Total for cider, bushels	4,501,000	2,630,800
<u>Apples used in other ways:</u>		
For drying, bushels	1,284,800	373,900
For canning and apple-sauce, bushels	1,657,700	790,100
For other factory products (incl. waste) bu.	148,700	67,100
Total for evaporator and cannery, bu.	3,091,200	1,231,100

TABLE 1- APPLES AND APPLE PRODUCTS IN CIDER-MILLS, EVAPORATORS AND CANNERIES, 1937 AND 1938 - CONCLUDED.

	CROP YEAR 1937	CROP YEAR 1938
<u>Products manufactured:</u>		
Cider:		
In cider mills, gallons	18,493,800	10,662,000
In canneries, incl. that from skins and cores, gallons	353,600	146,000
Total cider, gallons	18,847,400	10,808,000
Evaporated apple products:		
Evaporated apples, pounds	7,101,200	2,147,000
Dried chops	727,000	192,300
Dried skins and cores, pomace and waste, pounds	2,426,300	104,000

Other products include frozen apples, apple butter, apple juice, Apple jelly, mince-meat and other products for which apples are used.

1/ In 1937, seven mills included here were operated in connection with evaporator or cannery operations. Eliminating this duplication leaves a net of 566 cider mills in operation. Similarly, in 1938, there were 3 duplications, leaving a net number of 449 mills. In 1937, receipts of apples to the extent of 75,000 bushels were estimated for 56 small mills which did not render reports, but which were believed to be in operation. In 1938, several mills not rendering reports were estimated on the basis of 1937 operations.

2/ Does not include skins and cores received from canning factories and evaporators and pressed for cider.

3/ Includes cider pressed from skins and cores. The large mills generally extracted a larger quantity of cider from 100 pounds of apples than did the smaller commercial mills and the custom mills.

4/ This average date does not include 8 cider mills which, for the 1937 crop, gave their average closing date as March 26. On account of the abnormally low prices prevailing for apples from the 1937 crop, some pressing, evaporating and canning were done very late. For the 1938 crop, 9 mills, not included in average date, finished pressing on March 23, on the average.

5/ Includes, in 1937 crop, the price of apples evaporated or canned in connection with the surplus utilization program of the Federal Surplus Commodities Corporation in the spring of 1938. Not including the F.S.C.C. apples, the average price given for raw apples for evaporating was 27 cents per 100 pounds, and for canning the difference was negligible.

TABLE 2- APPLES RECEIVED AT MANUFACTURING PLANTS, CIDER MADE AND PRICES,  
BY DISTRICTS, CROPS OF 1937 AND 1938. 1/

District and product:	Cider-mills	Evaporators	Canneries:	Total
Apples received (net) (thousand bushels)				
Ontario				
1937	2,604	1,167	1,612	5,383
1938	1,305	347	798	2,450
Mid-western				
1937	324	88	200	612
1938	236	21	44	301
Hudson				
1937	554	-	-	554
1938	390	-	-	390
Champlain				
1937	14	-	-	14
1938	11	-	-	11
Other				
1937	938	30	61	1,029
1938	680	6	24	710
Total				
1937	4,434	1,285	1,873	7,592
1938	2,622	374	866	3,862
Cider made, gallons:				
Ontario				
1937	11,619	-	354	11,973
1938	5,617	-	146	5,763
Mid-western				
1937	1,534	-	-	1,534
1938	896	-	-	896
Hudson				
1937	1,947	-	-	1,947
1938	1,412	-	-	1,412
Champlain				
1937	49	-	-	49
1938	33	-	-	33
Other				
1937	3,345	-	-	3,345
1938	2,704	-	-	2,704
Total				
1937	18,494	-	354	18,848
1938	10,662	-	146	10,808

1/ See footnotes, page 6.

TABLE 2- APPLES RECEIVED AT MANUFACTURING PLANTS, CIDER MADE AND PRICES,  
BY DISTRICTS, CROPS OF 1937 AND 1938- CONCLUDED 1/

District and product	Cider-mills	Evaporators	Canneries	Total
Prevailing prices per 100 pounds, for apples for manufacture;				
Ontario				
1937	\$.18	\$.33	\$.41	\$.28
1938	.23	.28	.57	.35
Mid-western				
1937	.24	.26	.52	.33
1938	.27	.25	.67	.33
Hudson				
1937	.25	-	-	.25
1938	.26	-	-	.26
Champlain				
1937	.21	-	-	.21
1938	.46	-	-	.46
Other				
1937	.29	.40	.52	.31
1938	.33	.20	.80	.34
Total				
1937	.22	.33	.43	.29
1938	.26	.28	.58	.34

1/ See footnote preceding table for explanations. The districts here given include counties as follows:

Ontario Dist:- Niagara, Orleans, Monroe, Wayne.

Mid-western Dist:- Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins.

Hudson Dist:- Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland.

Champlain Dist:- Clinton, Essex.

Other Dist:- All counties not included above.

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